

Name:

Negative and Zero Exponents Worksheet

Simplify. Your answer should contain only positive exponents

1 6^{-3}

2 4^0

3 $(3pq^0)^{-2}$

4 $(5p^4)^0$

5 $-6x^{-1}y^3$

6 $-p^4q^{-1}$

7 $\frac{3m^{-5}n^{-6}}{9m^8n^0}$

8 $6x^{-2} \cdot 6x^0$

9 $3x^{-3}y^0$

10 $2u^0v^{-3}$

11 $\frac{5}{3}^{-3}$

12 $\frac{x}{3^{-3}}$

Name:

Negative and Zero Exponents Worksheet

Answers

1 6^{-3}

$\frac{1}{6^3}$

3 $(3pq^0)^{-2}$

$\frac{1}{(3p)^2}$

5 $-6x^{-1}y^3$

$-\frac{6y^3}{x}$

7 $\frac{3m^{-5}n^{-6}}{9m^8n^0}$

$\frac{1}{3m^{13}n^6}$

9 $3x^{-3}y^0$

$\frac{3}{x^3}$

11 $\left(\frac{5}{3}\right)^{-3}$

$\frac{27}{125}$

2 4^0

1

4 $(5p^4)^0$

1

6 $-p^4q^{-1}$

$-\frac{p^4}{q}$

8 $6x^{-2} \cdot 6x^0$

$\frac{36}{x^2}$

10 $2u^0v^{-3}$

$\frac{2}{v^3}$

12 $\frac{x}{3^{-3}}$

$27x$